

## STRAUSS HAUER &amp; FELD LLP

Attorneys at Law

CHRISTOPHER J. ROURK  
(214) 969-8558/Fax (214) 969-4343  
crourk@ahfgump.com

August 21, 2002

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FROM: Chris J. Rourk      PHONE: 214/969-4669      FLOOR: 43  
RE: Applicant: Underbrink et al.  
Serial No. 09/394,189  
Filed: September 13, 1999  
For: Directional Antenna for Hand-Held Wireless Communications Device  
Attorney Docket No. 600456-0023 (Formerly 044368-0169) - B64418C

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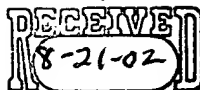
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## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re patent application of

Underbrink et al.

Group Art Unit 2685

Serial No. 09/394,189

Examiner: Craver, Charles

Filed: 09/13/99

For: DIRECTIONAL ANTENNA FOR  
HAND-HELD WIRELESS  
COMMUNICATIONS DEVICEBOX: Non-Fee Amendment  
Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

<p align="center"><b>CERTIFICATE OF TRANSMISSION</b> <b>UNDER 37 CFR 1.18 AND</b> <b>CERTIFICATE OF MAILING (37 CFR 1.8(a))</b></p> <p>I hereby certify that this paper is being transmitted to the Assistant Commissioner for Patents, Washington, D.C. 20231, care of Examiner Charles Craver at (703) 872-9314, on August 21, 2002 and is being deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail and in an envelope addressed to: Commissioner for Patents, BOX NON FEE AMENDMENT, Washington, D.C. 20231</p> <p align="center"> Kelly Breeze 8/21/2002 Date</p>
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RESPONSE TO OFFICE ACTION

In response to the Office Action mailed on May 21, 2002, Paper No. 12, consideration of the following arguments is respectfully requested:

**IN THE CLAIMS**

For the convenience of the Examiner, all pending claims are provided herewith, regardless of whether or not amended. New claim 31 is herewith provided for examination.

**In the Claims:**

1. A system for wireless communications comprising:  
a hand-held wireless communications device;  
an antenna coupled to the hand-held wireless communications device, the antenna